

DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS, 544th AEROSPACE RECONNAISSANCE TECHNICAL WING (SAC)  
OFFUTT AIR FORCE BASE, NEBRASKA 68113



REPLY TO  
ATTN OF: RD

23 August 1971

SUBJECT: Equipment Discrepancy ( [ ] 1540 Light Table)

STAT

TO: SAC (INM)

1. The 544th ARTW Research Division has experienced considerable difficulty in the past few months in focusing the Zoom 240 [ ] Stereoscope. The Rhomboid arms on this scope can be equipped with either a 1X stereo lens providing a 30X magnification or a 2X lens providing 60X magnification. Both lenses are supplied with the Stereoscope. The distance the 1X lens can travel and remain in focus is approximately  $\pm 0.0075$  inch, but this distance is reduced to approximately  $\pm 0.002$  inch for the 2X lens. A recent conversation with [ ] from [ ] has possibly identified the cause of our focusing difficulties.

STAT

2. The specifications for the [ ] 1540 table allowed for a  $\pm 0.0075$  inch tolerance on the viewing surface of the table - this includes both the bearings/mount on which the stereoscope mount rides and the glass platen. This tolerance was and is acceptable when utilizing the 1X rhomboid lens; however, with the limited tolerance allowed with the 2X lens, there appears to be little or no possibility of both lenses of the stereoscope remaining in the  $.002$  inch range.

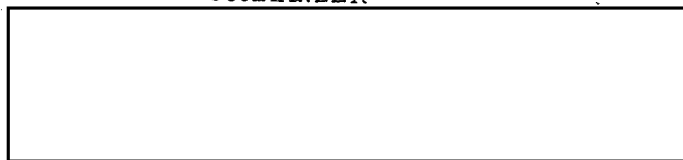
STAT

3. The 544th ARTW Research Division is in the process of replacing all 2X rhomboid lenses with the 1X lens. The subsequent reduction of magnification power by a factor of 2 may well have a detrimental effect on the quality of interpretation and on the reports generated from this required change.

4. While company representatives are aware of this problem, as well as users at the DoD level, recommend OOAMA be advised and corrective action be taken to encompass the specifications of the 2X rhomboid lens into the specifications of the [ ] 1540 table.

STAT

FOR THE COMMANDER



2 Atchs

1. ~~Dklt, Zoom 240 Stereoscope~~  
Sys

2. ~~Bklt, Op Man, 1540 Image~~  
~~Interp Light Table~~

USAF review(s) completed.

Declass review by NSA/DoD

Peace . . . . is our Profession